



Generations

AHEAD

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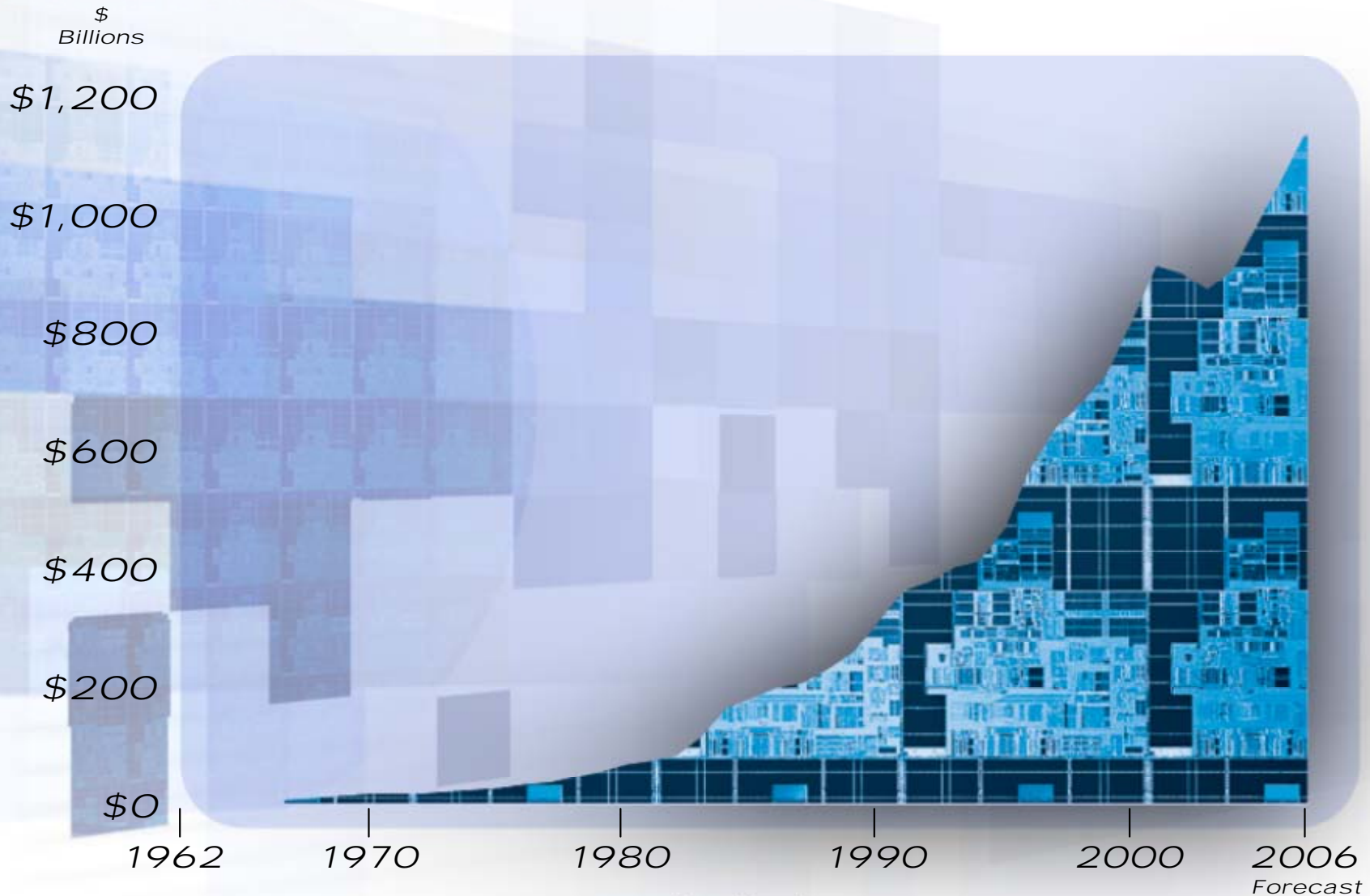
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Agenda

*Digital Picture
Inside the Future
Generations Ahead*

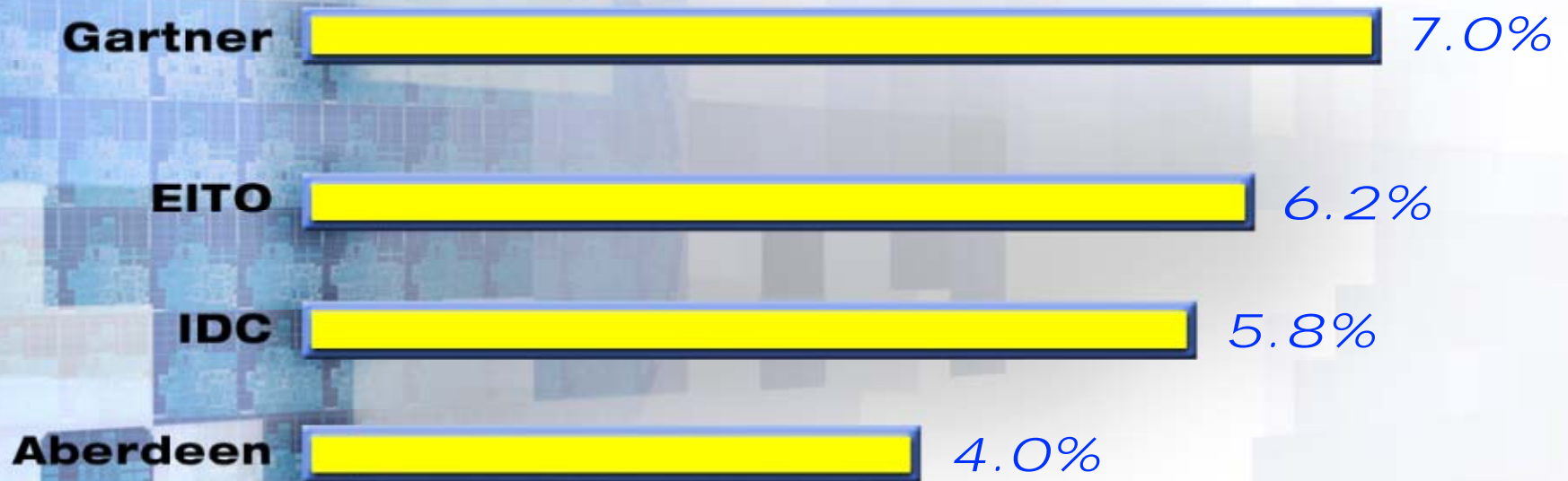


Digital Picture: Worldwide IT Spending



Digital Picture: *Demand in a Demanding World*

2003 IT Growth Forecasts



Digital Picture: *Optimistic or Pessimistic?*

Proliferation of Digital technology

Worldwide Internet build-out

Wireless WAN and LAN

*Convergence of computing
and communications*

Integrated process technology

Digital Picture: Global Technology Use



Digital Picture: Internet Data Traffic

Backbone Traffic
(Petabytes/month)

10,000

1,000

100

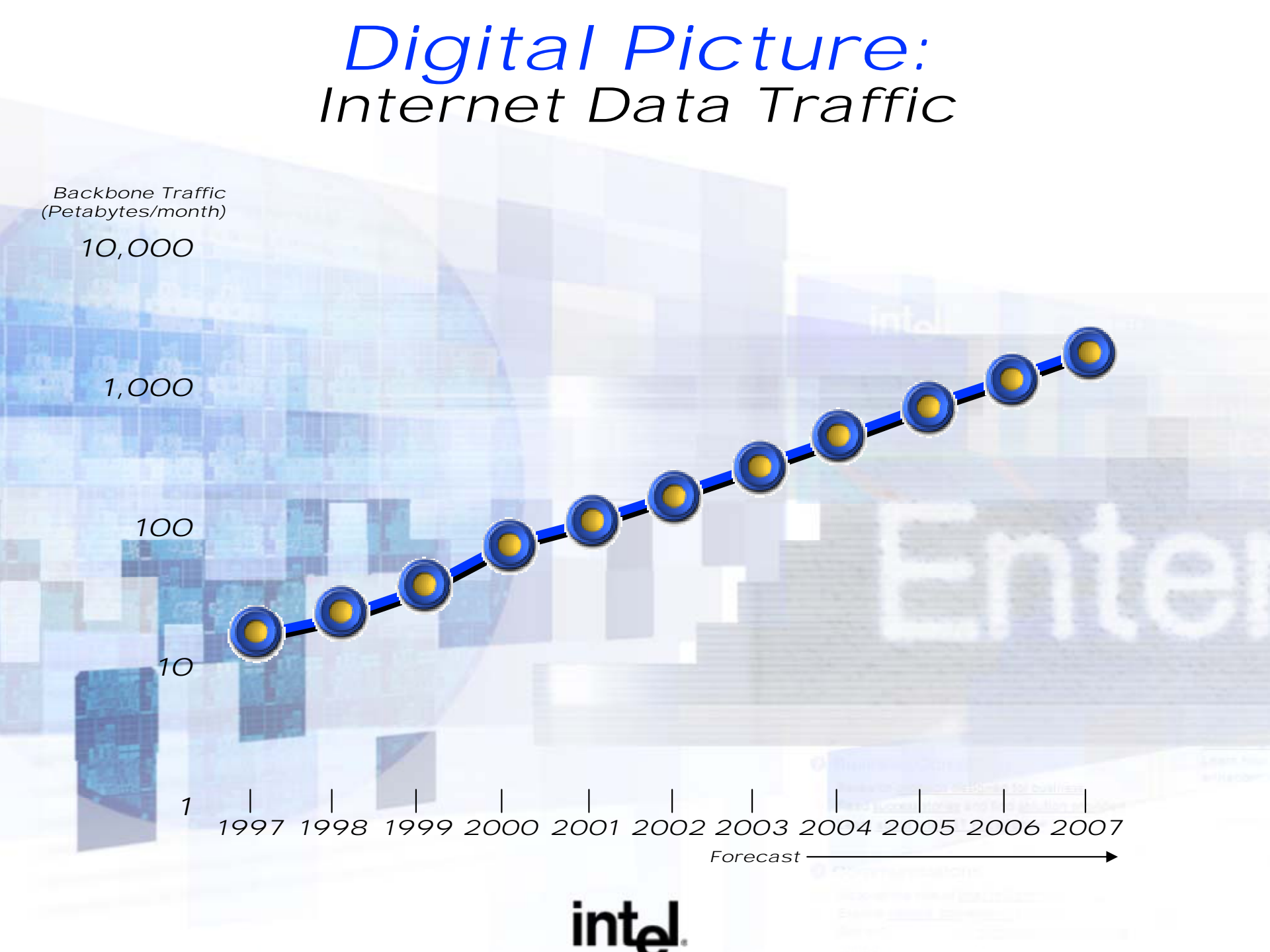
10

1

1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007

Forecast →

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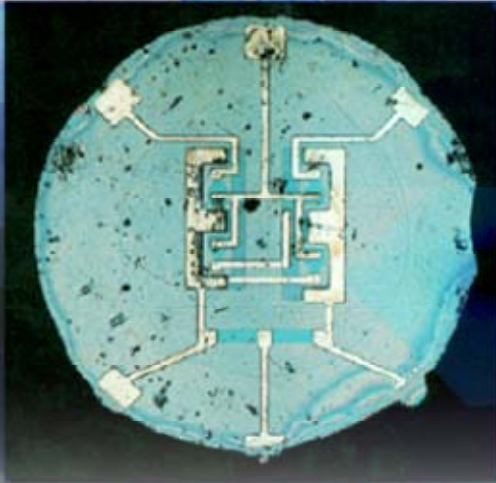




*The Desire for
Advanced Technology
is Alive and Well*

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Inside the Future: Paths of Advanced Technology



Revolutionary

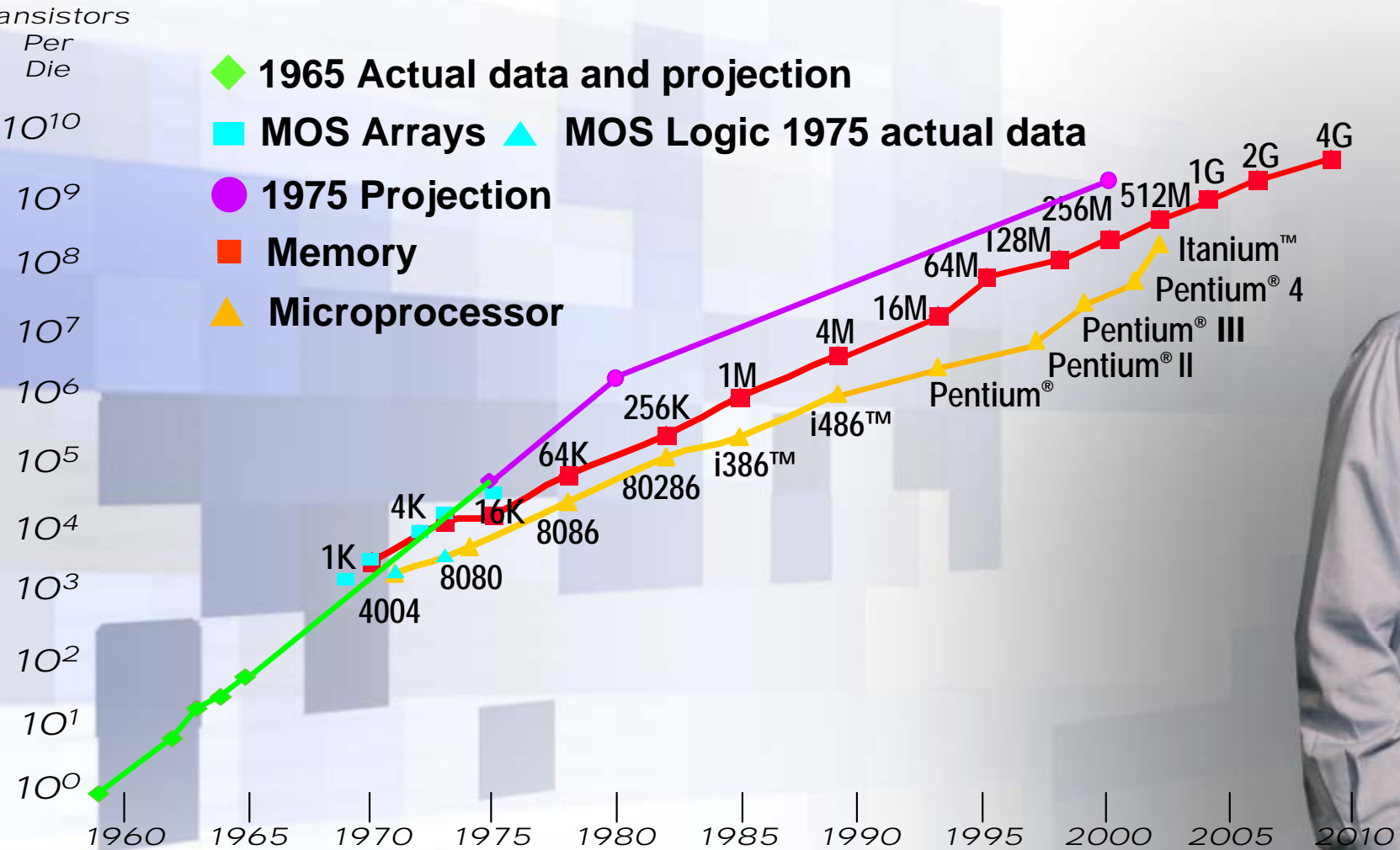
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Inside the Future: Paths of Advanced Technology



Evolutionary

Inside the Future: Tracking Moore's Law



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Inside the Future: *Silicon Innovation and Integration*

New capabilities

New applications

New business models

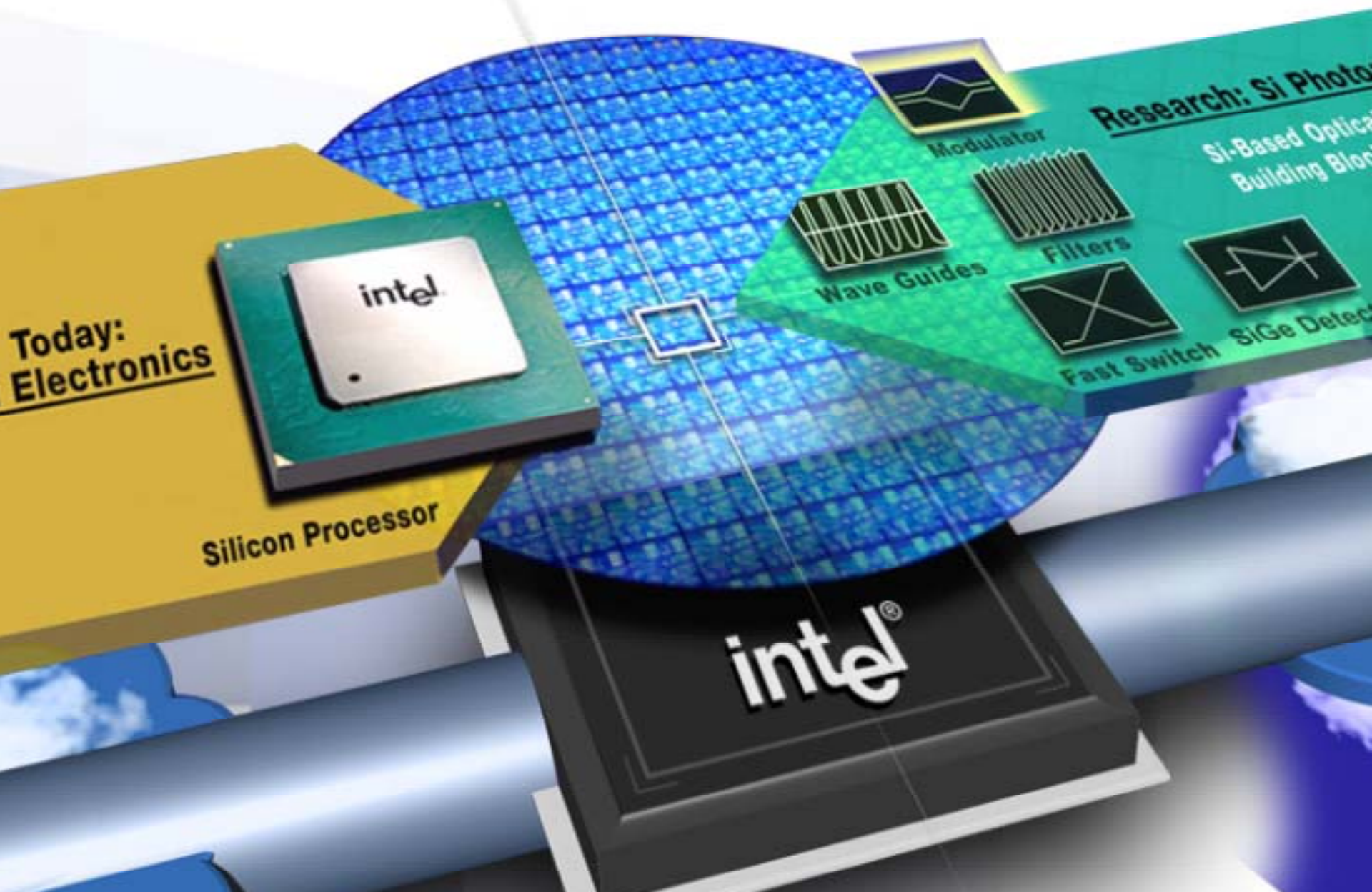
Increasing performance

Volume economics

Inside the Future: Silicon Technology

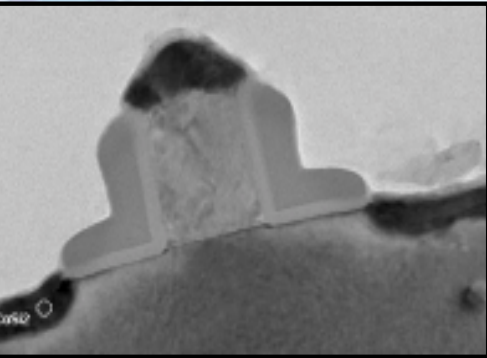


Inside the Future: *Silicon Photonics Research*

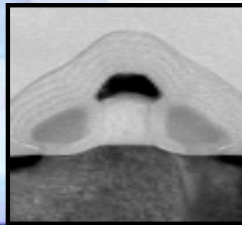


Inside the Future: Nanotechnology Era

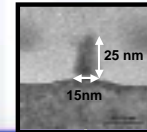
130nm node
70nm length



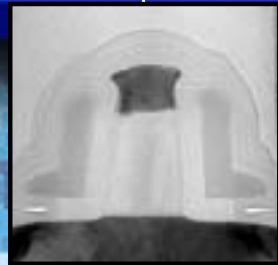
65nm node
30nm prototype



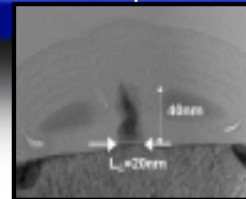
32nm node
15nm prototype



2000 2001 2002 2003 2004 2005 2006 2007 2008 2009



90nm node
50nm length



45nm node
30nm prototype



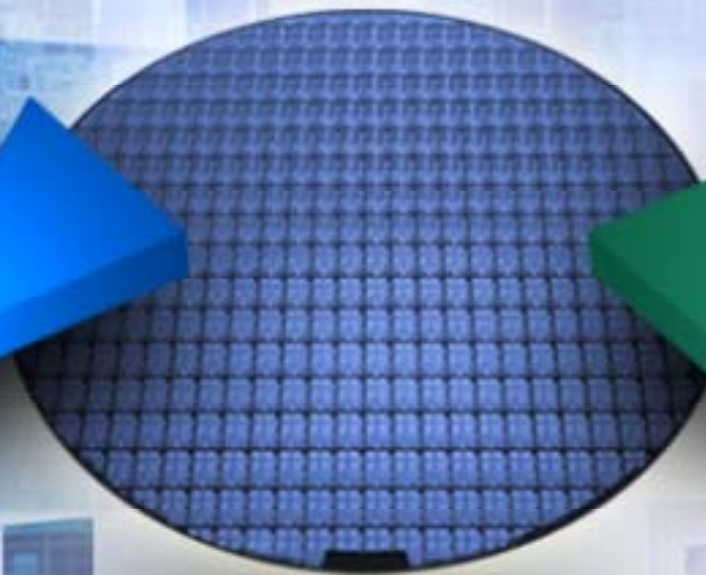
*The Path is Certain for
Generations Ahead*

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Generations Ahead: *Convergence Of Computing and Communications*



Computing



Communication

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Generations Ahead: *Innovative Solutions*

Advanced silicon

Digital architectures

Software capability

System design





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Generations Ahead: Developing Software

Produce it  Use it



Generations Ahead: *Development Challenges*

Anytime, anywhere, any device

Security and content protection solutions

Occasionally connected

Seamless software

Simplicity and ease of use

Generations Ahead: *Designing for Use*





For Your Design Path **Develop**
a **Generation Ahead**

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Intel
Developer
Forum.

